

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for determining lymphocyte diversity in a subject, said method comprising
 - a) providing labeled RNA nucleic acid molecules from a population of said subject's lymphocytes, wherein each said labeled RNA nucleic acid molecule encodes a lymphocyte receptor or a portion thereof;
 - b) hybridizing said labeled RNA nucleic acid molecules or fragments of said labeled RNA nucleic acid molecules with a population of random nucleic acid molecules; and
 - c) determining lymphocyte diversity of said subject by assessing hybridization of said labeled RNA nucleic acid molecules with said population of random nucleic acid molecules.
2. (Original) The method of claim 1, wherein said random nucleic acid molecules within said population are attached to a solid substrate.
3. (Original) The method of claim 2, wherein said solid substrate is a multiwell plate or membrane, a glass slide, a chip, or a bead.
4. (Original) The method of claim 2, wherein said solid substrate is a bead.
5. (Original) The method of claim 4, wherein hybridization is assessed by flow cytometry.

6. (Original) The method of claim 2, wherein said solid substrate comprises a plurality of discrete regions, wherein each of said discrete regions comprises a different random nucleic acid molecule.

7. (Currently Amended) The method of claim 1, wherein said labeled RNA nucleic acid molecules are labeled with a fluorochrome.

8. (Original) The method of claim 7, wherein said fluorochrome is fluorescein isothiocyanate (FITC), phycoerythrin (PE), allophycocyanin (APC), or peridinin chlorophyll protein (PerCP).

9. (Withdrawn; Currently Amended) The method of claim 1, wherein said labeled RNA nucleic acid molecules are labeled with biotin.

10. (Withdrawn; Currently Amended) The method of claim 1, wherein said labeled RNA nucleic acid molecules are labeled with an enzyme.

11-12. (Cancelled)

13. (Original) The method of claim 1, wherein said population of lymphocytes are T lymphocytes.

14. (Currently Amended) The method of claim 13, wherein said labeled RNA nucleic acid molecules encode a variable region from a T cell receptor.

15. (Currently Amended) The method of claim 13, wherein said labeled RNA nucleic acid molecules encode a complementarity determining region (CDR) 3 β chain polypeptide.

16. (Withdrawn) The method of claim 1, wherein said population of lymphocytes are B lymphocytes.

17. (Withdrawn; Currently Amended) The method of claim 16, wherein said labeled RNA nucleic acid molecules encode a variable region from a heavy chain or a light chain.

18-50. (Cancelled)